

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:
YOSHIMASA OKAMURA, et al.
Application No.: Not Yet Assigned
Filed: Herewith
For: FABRICATION OF NANOSCALE
THERMOELECTRIC DEVICES

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September 19, 2003

Mail Stop Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56 and in accordance with the practice under 37 C.F.R. §§ 1.97 and 1.98, the Examiner's attention is directed to the documents listed below and on the enclosed Forms PTO-1449. A copy of each document so listed is enclosed.

- (1) U.S. Patent Publication No. US 2001/0001961 A1
- (2) U.S. Patent Publication No. US 2003/0041892 A1
- (3) U.S. Patent Publication No. US 2003/0047204 A1
- (4) U.S. Patent No. 4,971,632
- (5) U.S. Patent No. 4,983,225
- (6) U.S. Patent No. 5,286,304
- (7) U.S. Patent No. 5,837,929
- (8) U.S. Patent No. 5,921,087

- (9) U.S. Patent No. 6,127,619
- (10) U.S. Patent No. 6,207,887
- (11) U.S. Patent No. 6,214,738
- (12) U.S. Patent No. 6,231,744
- (13) U.S. Patent No. 6,232,542
- (14) U.S. Patent No. 6,359,288
- (15) U.S. Patent No. 6,441,295
- (16) U.S. Patent No. 6,441,296
- (17) U.S. Patent No. 6,605,772
- (18) JP 63-020880
- (19) JP 11-298051
- (20) JP 2001-282396

(21) "Introduction to Thermoelectrics", website,
<http://www.thermoelectrics.com/introduction.htm>, site visited July 28, 2003.

(22) M.S. Dresselhaus, et al., "The Promise of Low Dimensional Systems for Thermoelectric Applications," website,
<http://www.osti.gov/fcvtdarpa2002/mdresselhaus.pdf>, site visited September 18, 2003.

(23) "THERMOELECTRICITY" website,
http://www.nanotherm.org/public_main.htm, site visited July 28, 2003.

(24) "Stacy Group" Stacy Group Thermoelectrics Research, website,
<http://www.cchem.berkeley.edu/~amsgrp/thermoelectrics.html>, site visited August 29, 2003.

(25) "Design of Advanced Materials" Stacy Group Home, website, <http://www.cchem.berkeley.edu/~amsgrp/index.html>, site visited July 28, 2003.

(26) "Eneco Technology" r-layout2, website,
<http://www.eneco-usa.com/technology/content.htm>, site visited July 28, 2003.

(27) "Hi-Z Technology" Hi-Z TECHNOLOGY, INC., website, <http://www.hi-z.com/>, site visited July 28, 2003.

(28) "Marlow Industries Inc." thermoelectric manufacturer
Marlow Industries inc., website, <http://www.marlow.com/>, site
visited July 28, 2003.

(29) "TELLUREX Z-Max thermoelectric modules for
power generation..." Tellurex Corporation, website,
<http://www.tellurex.com/>, site visited July 28, 2003.

(30) "A Quantum Leap in Power Generation" Power
Chips plc, website, <http://www.powerchips.gi/>, site visited July 28,
2003.

(31) "The Science Behind Power Chips™, A Basic
Introduction" Power Chips plc, website,
<http://www.powerchips.gi/technology/overview.shtml>, site visited
July 28, 2003.

(32) M.S. Dresselhaus, et al., "INVESTIGATION OF
LOW-DIMENSIONAL THERMOELECTRICS", *Symposium
Proceeding, Technomic Publishing Co.*, pp. 1-13.

The Examiner is urged to study this information in its entirety and to form
an independent determination of the materiality of the information to the claimed
invention. Additionally, the Examiner is requested to indicate that the enclosed
information has been considered by initialing the appropriate portion of Forms PTO-1449.

Applicants' undersigned attorney may be reached in our Costa Mesa,
California office by telephone at (714) 540-8700. All correspondence should continue to
be directed to our address given below.

Respectfully submitted,

Attorney for Applicants

Registration No. _____

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New York, New York 10112-3801
Facsimile: (212) 218-2200

FORM PTO 1449 (modified)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICELIST OF REFERENCES CITED BY APPLICANT(S)
(Use several sheets if necessary)ATTY DOCKET NO.
03650.002191

APPLICATION NO.

APPLICANT

YOSHIMASA OKAMURA

FILING DATE

Herewith

GROUP

U.S. PATENT DOCUMENTS

*EXAMINER	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	4,971,632	11/20/1990	Rowe	136	212	
	4,983,225	01/08/1991	Rowe	136	201	
	5,286,304	02/15/1994	Macris, et al.	136	201	
	5,837,929	11/17/1998	Adelman	136	225	
	5,921,087	07/13/1999	Bhatia, et al.	62	3.2	
	6,127,619	10/03/2000	Xi, et al.	136	203	
	6,207,887	03/27/2001	Bass, et al.	136	201	
	6,214,738	04/10/2001	Aiba, et al.	438	707	

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT
	63-20880	01/28/1988	JAPAN			Abstract
	11-298051	10/29/1999	JAPAN			Abstract
	2001-282396	10/12/2001	JAPAN			Abstract

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

U.S. Patent Publication No. US 2001/0001961 A1

U.S. Patent Publication No. US 2003/0041892 A1

U.S. Patent Publication No. US 2003/0047204 A1

EXAMINER

DATE CONSIDERED

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Sheet 1 of 3

FORM PTO 1449 (modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary)				ATTY DOCKET NO. 03650.002191		APPLICATION NO.	
				APPLICANT YOSHIMASA OKAMURA			
				FILING DATE Herewith		GROUP	
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		6,231,744	05/15/2001	Ying, et al.	205	324	
		6,232,542	05/15/2001	Hiraishi, et al.	136	201	
		6,359,288	03/19/2002	Ying, et al.	257	14	
		6,441,295	08/27/2002	Hiraishi, et al.	136	201	
		6,441,296	08/27/2002	Hiraishi, et al.	136	201	
		6,605,772	08/12/2003	Harman, et al.	136	236.1	
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		"Introduction to Thermoelectrics", website, http://www.thermoelectrics.com/introduction.htm, site visited July 28, 2003.					
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		<p>“Design of Advanced Materials” Stacy Group Home, website, http://www.cchem.berkeley.edu/~amsgrp/index.html, site visited July 28, 2003.</p>					
		<p>“Eneco Technology” r-layout2, website, http://www.eneco-usa.com/technology/content.htm, site visited July 28, 2003.</p>					
		<p>Marlow Industries Inc.” thermoelectric manufacturer Marlow Industries inc., website, http://www.marlow.com/, site visited July 28, 2003.</p>					
		<p>Hi-Z Technology” Hi-Z TECHNOLOGY, INC., website, http://www.hi-z.com/, site visited July 28, 2003.</p>					
		<p>“TELLUREX Z-Max thermoelectric modules for power generation...” Tellurex Corporation, website, http://www.tellurex.com/, site visited July 28, 2003.</p>					
		<p>“A Quantum Leap in Power Generation” Power Chips plc, website, http://www.powerchips.gi/, site visited July 28, 2003.</p>					
		<p>“The Science Behind Power Chips™, A Basic Introduction” Power Chips plc, website, http://www.powerchips.gi/technology/overview.shtml, site visited July 28, 2003.</p>					
		<p>M.S. Dresselhaus, et al., “INVESTIGATION OF LOW-DIMENSIONAL THERMOELECTRICS”, <i>Symposium Proceeding, Technomic Publishing Co.</i>, pp. 1-13.</p>					
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